

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/485,529

DATE: 06/25/2001
TIME: 08:53:29

Input Set : A:\620-91.app
Output Set: N:\CRF3\06252001\I485529.raw

3 <110> APPLICANT: Harberd, Nicholas P
4 Richards, Donald E
5 Peng, Jinrong
7 <120> TITLE OF INVENTION: Genetic Control of Plant Growth and Development
9 <130> FILE REFERENCE: 620-91
11 <140> CURRENT APPLICATION NUMBER: US 09/485,529
C--> 12 <141> CURRENT FILING DATE: 2000-03-01
14 <150> PRIOR APPLICATION NUMBER: PCT/GB98/02383
15 <151> PRIOR FILING DATE: 1998-08-07
17 <150> PRIOR APPLICATION NUMBER: GB 9717192.0
18 <151> PRIOR FILING DATE: 1997-08-13
20 <160> NUMBER OF SEQ ID NOS: 108
22 <170> SOFTWARE: PatentIn Ver. 2.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 630
26 <212> TYPE: PRT
27 <213> ORGANISM: Triticum aestivum
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63 <223> OTHER INFORMATION: Xaa is unknown or other amino acid
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66 <221> NAME/KEY: SITE /

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Input Set : A:\620-91.app
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119 Ala Gly Gly Ser Gly Gly Gly Gly Met Gly Ser Glu Asp Lys
120 20 25 30
122 Met Met Val Ser Ala Ala Gly Glu Gly Glu Val Asp Glu Leu
123 35 40 45
125 Leu Ala Ala Leu Gly Tyr Lys Val Arg Ala Ser Asp Met Ala Asp Val
126 50 55 60
128 Ala Gln Lys Leu Glu Lys Leu Glu Met Ala Met Gly Met Gly Val
129 65 70 75 80
W--> 131 Gly Ala Gly Ala Ala Pro Asp Arg Gln Val Xaa His Pro Xaa Ala Ala
132 85 90 95
W--> 134 Asp Thr Val Xaa Tyr Asn Pro Thr Asp Xaa Ser Ser Trp Val Glu Ser
135 100 105 110

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W--> 137 Met Leu Ser Glu Leu Xaa Glu Pro Xaa Pro Pro Leu Pro Pro Ala Pro
138 115 120 125
W--> 140 Gln Leu Asn Ala Ser Thr Val Thr Gly Ser Gly Gly Tyr Xaa Asp Leu
141 130 135 140
143 Pro Pro Ser Val Asp Ser Ser Ser Ile Tyr Ala Leu Arg Pro Ile
144 145 150 155 160
146 Pro Ser Pro Ala Gly Ala Thr Ala Pro Ala Asp Leu Ser Ala Asp Ser
147 165 170 175
149 Val Arg Asp Pro Lys Arg Met Arg Thr Gly Gly Ser Ser Thr Ser Ser
150 180 185 190
W--> 152 Ser Ser Ser Xaa Ser Ser Leu Gly Gly Gly Ala Arg Ser Ser Val
153 195 200 205
155 Val Glu Ala Ala Pro Pro Val Ala Ala Ala Asn Ala Thr Pro Ala
156 210 215 220
158 Leu Pro Val Val Val Asp Thr Gln Glu Ala Gly Ile Arg Leu Val
159 225 230 235 240
161 His Ala Leu Leu Ala Cys Ala Glu Ala Val Gln Gln Glu Asn Leu Ser
162 245 250 255
164 Ala Ala Glu Ala Leu Val Lys Gln Ile Pro Leu Leu Ala Ala Ser Gln
165 260 265 270
167 Gly Gly Ala Met Arg Lys Val Ala Ala Tyr Phe Gly Glu Ala Leu Ala
168 275 280 285
170 Arg Arg Val Phe Arg Phe Arg Pro Gln Pro Asp Ser Ser Leu Leu Asp
171 290 295 300
173 Ala Ala Phe Ala Asp Leu Leu His Ala His Phe Tyr Glu Ser Cys Pro
174 305 310 315 320
176 Tyr Leu Lys Phe Ala His Phe Thr Ala Asn Gln Ala Ile Leu Glu Ala
177 325 330 335
179 Phe Ala Gly Cys Arg Arg Val His Val Val Asp Phe Gly Ile Lys Gln
180 340 345 350
182 Gly Met Gln Trp Pro Ala Leu Leu Gln Ala Leu Ala Leu Arg Pro Gly
183 355 360 365
185 Gly Pro Pro Ser Phe Arg Leu Thr Gly Val Gly Pro Pro Gln Pro Asp
186 370 375 380
188 Glu Thr Asp Ala Leu Gln Gln Val Gly Trp Lys Leu Ala Gln Phe Ala
189 385 390 395 400
191 His Thr Ile Arg Val Asp Phe Gln Tyr Arg Gly Leu Val Ala Ala Thr
192 405 410 415
194 Leu Ala Asp Leu Glu Pro Phe Met Leu Gln Pro Glu Gly Glu Glu Asp
195 420 425 430
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198 435 440 445
200 His Arg Leu Leu Ala Gln Pro Gly Ala Leu Glu Lys Val Leu Gly His
201 450 455 460
W--> 203 Arg Ala Pro Pro Cys Gly Pro Glu Phe Xaa Thr Val Val Glu Thr Gln
204 465 470 475 480
206 Glu Ala Asn His Asn Ser Gly Thr Phe Leu Asp Arg Phe Thr Glu Ser
207 485 490 495
209 Leu His Tyr Tyr Ser Thr Met Phe Asp Ser Leu Glu Gly Ser Ser

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Input Set : A:\620-91.app
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212 Gly Gly Pro Ser Glu Val Ser Ser Gly Ala Ala Ala Ala Pro Ala
213 515 520 525
W--> 215 Ala Ala Gly Thr Asp Gln Val Xaa Ser Glu Val Tyr Leu Gly Arg Gln
216 530 535 540
W--> 218 Ile Cys Asn Val Val Ala Cys Glu Gly Ala Glu Arg Thr Xaa Arg His
219 545 550 555 560
221 Glu Thr Leu Gly Gln Trp Arg Asn Arg Leu Gly Asn Ala Gly Phe Glu
222 565 570 575
W--> 224 Thr Val His Leu Gly Ser Asn Ala Tyr Lys Gln Ala Xaa Thr Leu Leu
225 580 585 590
W--> 227 Ala Leu Phe Ala Gly Gly Glu Arg Leu Xaa Val Glu Glu Lys Glu Gly
228 595 600 605
W--> 230 Cys Leu Thr Leu Gly Leu His Thr Xaa Pro Leu Ile Ala Thr Ser Ala
231 610 615 620
233 Trp Arg Leu Ala Gly Pro
234 625 630
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239 <212> TYPE: PRT
240 <213> ORGANISM: Arabidopsis thaliana
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247 20 25 30
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250 35 40 45
252 Leu Glu Gln Leu Glu Val Met Met Ser Asn Val Gln Glu Asp Asp Leu
253 50 55 60
255 Ser Gln Leu Ala Thr Glu Thr Val His Tyr Asn Pro Ala Glu Leu Tyr
256 65 70 75 80
258 Thr Trp Leu Asp Ser Met Leu Thr Asp Leu Asn Pro Pro Ser Ser Asn
259 85 90 95
261 Ala Glu Tyr Asp Leu Lys Ala Ile Pro Gly Asp Ala Ile Leu Asn Gln
262 100 105 110
264 Phe Ala Ile Asp Ser Ala Ser Ser Asn Gln Gly Gly Gly Asp
265 115 120 125
267 Thr Tyr Thr Thr Asn Lys Arg Leu Lys Cys Ser Asn Gly Val Val Glu
268 130 135 140
270 Thr Thr Ala Thr Ala Glu Ser Thr Arg His Val Val Leu Val Asp
271 145 150 155 160
273 Ser Gln Glu Asn Gly Val Arg Leu Val His Ala Leu Leu Ala Cys Ala
274 165 170 175
276 Glu Ala Val Gln Lys Glu Asn Leu Thr Val Ala Glu Ala Leu Val Lys
277 180 185 190
279 Gln Ile Gly Phe Leu Ala Val Ser Gln Ile Gly Ala Met Arg Lys Val
280 195 200 205
282 Ala Thr Tyr Phe Ala Glu Ala Leu Ala Arg Arg Ile Tyr Arg Leu Ser

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Input Set : A:\620-91.app
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283 210 215 220
285 Pro Ser Gln Ser Pro Ile Asp His Ser Leu Ser Asp Thr Leu Gln Met
286 225 230 235 240
288 His Phe Tyr Glu Thr Cys Pro Tyr Leu Lys Phe Ala His Phe Thr Ala
289 245 250 255
291 Asn Gln Ala Ile Leu Glu Ala Phe Gln Gly Lys Lys Arg Val His Val
292 260 265 270
294 Ile Asp Phe Ser Met Ser Gln Gly Leu Gln Trp Pro Ala Leu Met Gln
295 275 280 285
297 Ala Leu Ala Leu Arg Pro Gly Gly Pro Pro Val Phe Arg Leu Thr Gly
298 290 295 300
300 Ile Gly Pro Pro Ala Pro Asp Asn Phe Asp Tyr Leu His Glu Val Gly
301 305 310 315 320
303 Cys Lys Leu Ala His Leu Ala Glu Ala Ile His Val Glu Phe Glu Tyr
304 325 330 335
306 Arg Gly Phe Val Ala Asn Thr Leu Ala Asp Leu Asp Ala Ser Met Leu
307 340 345 350
309 Glu Leu Arg Pro Ser Glu Ile Glu Ser Val Ala Val Asn Ser Val Phe
310 355 360 365
312 Glu Leu His Lys Leu Leu Gly Arg Pro Gly Ala Ile Asp Lys Val Leu
313 370 375 380
315 Gly Val Val Asn Gln Ile Lys Pro Glu Ile Phe Thr Val Val Glu Gln
316 385 390 395 400
318 Glu Ser Asn His Asn Ser Pro Ile Phe Leu Asp Arg Phe Thr Glu Ser
319 405 410 415
321 Leu His Tyr Tyr Ser Thr Leu Phe Asp Ser Leu Glu Gly Val Pro Ser
322 420 425 430
324 Gly Gln Asp Lys Val Met Ser Glu Val Tyr Leu Gly Lys Gln Ile Cys
325 435 440 445
327 Asn Val Val Ala Cys Asp Gly Pro Asp Arg Val Glu Arg His Glu Thr
328 450 455 460
330 Leu Ser Gln Trp Arg Asn Arg Phe Gly Ser Ala Gly Phe Ala Ala Ala
331 465 470 475 480
333 His Ile Gly Ser Asn Ala Phe Lys Gln Ala Ser Met Leu Leu Ala Leu
334 485 490 495
336 Phe Asn Gly Gly Glu Gly Tyr Arg Val Glu Glu Ser Asp Gly Cys Leu
337 500 505 510
339 Met Leu Gly Trp His Thr Arg Pro Leu Ile Ala Thr Ser Ala Trp Lys
340 515 520 525
342 Leu Ser Thr Asn
343 530
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347 <211> LENGTH: 2709
348 <212> TYPE: DNA
349 <213> ORGANISM: Triticum aestivum
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <222> LOCATION: (6)
354 <223> OTHER INFORMATION: n is any nucleotide

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/485,529**DATE: 06/25/2001
TIME: 08:53:30Input Set : A:\620-91.app
Output Set: N:\CRF3\06252001\I485529.raw

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L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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